

EXHIBIT A

Paper copy of Sequence Listings filed in
U.S. Provisional Application 60/155,241
(Attorney Docket No. PF-0557 US)

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SEQUENCE LISTING

<110> Bandman, Olga
Hillman, Jennifer L.
Gorgone, Gina
Guegler, Karl J.
Corley, Neil C.
Baughn, Mariah R.

<120> HUMAN CYTOCHROMES

<130> PF-0557 US

<160> 6

<170> FastSEQ for Windows Version 3.0

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<213> HOMO SAPIENS

<220>
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35 40 45
Trp Ser Ile Gln His Pro Gly Gly Gln Arg Val Ile Gly His Tyr Ala
50 55 60
Gly Glu Asp Ala Thr Asp Ala Phe Arg Ala Phe His Pro Asp Leu Glu
65 70 75 80
Phe Val Gly Lys Phe Leu Lys Pro Leu Leu Ile Gly Glu Leu Ala Pro
85 90 95
Glu Glu Pro Ser Gln Asp His Gly Lys Asn Ser Lys Ile Thr Glu Asp
100 105 110
Phe Arg Ala Leu Arg Lys Thr Ala Glu Asp Met Asn Leu Phe Lys Thr
115 120 125
Asn His Val Phe Phe Leu Leu Leu Ala His Ile Ile Ala Leu Glu
130 135 140
Ser Ile Ala Trp Phe Thr Val Phe Tyr Phe Gly Asn Gly Trp Ile Pro
145 150 155 160
Thr Leu Ile Thr Ala Phe Val Leu Ala Thr Ser Gln Ala Gln Ala Gly
165 170 175
Trp Leu Gln His Asp Tyr Gly His Leu Ser Val Tyr Arg Lys Pro Lys
180 185 190
Trp Asn His Leu Val His Lys Phe Val Ile Gly His Leu Lys Gly Ala
195 200 205
Ser Ala Asn Trp Trp Asn His Arg His Phe Gln His His Ala Lys Pro
210 215 220
Asn Ile Phe His Lys Asp Pro Asp Val Asn Met Leu His Val Phe Val
225 230 235 240
Leu Gly Glu Trp Gln Pro Ile Glu Tyr Gly Lys Lys Leu Lys Tyr
245 250 255
Leu Pro Tyr Asn His Gln His Glu Tyr Phe Phe Leu Ile Gly Pro Pro
260 265 270
Leu Leu Ile Pro Met Tyr Phe Gln Tyr Gln Ile Ile Met Thr Met Ile
275 280 285
Val His Lys Asn Trp Val Asp Leu Ala Trp Ala Val Ser Tyr Tyr Ile
290 295 300
Arg Phe Phe Ile Thr Tyr Ile Pro Phe Tyr Gly Ile Leu Gly Ala. Leu

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305	310	315	320
Leu Phe Leu Asn Phe Ile Arg Phe Leu Glu Ser His Trp Phe Val Trp			
325	330	335	
Val Thr Gln Met Asn His Ile Val Met Glu Ile Asp Gln Glu Ala Tyr			
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Arg Asp Trp Phe Ser Ser Gln Leu Thr Ala Thr Cys Asn Val Glu Gln			
355	360	365	
Ser Phe Phe Asn Asp Trp Phe Ser Gly His Leu Asn Phe Gln Ile Glu			
370	375	380	
His His Leu Phe Pro Thr Met Pro Arg His Asn Leu His Lys Ile Ala			
385	390	395	400
Pro Leu Val Lys Ser Leu Cys Ala Lys His Gly Ile Glu Tyr Gln Glu			
405	410	415	
Lys Pro Leu Leu Arg Ala Leu Leu Asp Ile Ile Arg Ser Leu Lys Lys			
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<220>
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Trp His Pro Val Leu Met Val Thr Gly Phe Val Phe Ile Gln Gly Ile			
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Pro Trp Ala Pro Leu Ser Leu Arg Ala Phe Leu Met Pro Ile His Val			
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Tyr Ser Gly Ile Val Ile Phe Gly Thr Val Ile Ala Thr Ala Leu Met			
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Gly Leu Thr Glu Lys Leu Ile Phe Ser Leu Arg Asp Pro Ala Tyr Ser			
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Thr Phe Pro Pro Glu Gly Val Phe Val Asn Thr Leu Gly Leu Leu Ile			
195	200	205	
Leu Val Phe Gly Ala Leu Ile Phe Trp Ile Val Thr Arg Pro Gln Trp			
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225	230	235	240
Thr Glu Gln Gly Ala Arg Gly Ser Met Pro Ala Tyr Ser Gly Asn Asn			
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<213> HOMO SAPIENS

<220>

<223> 008879, HMC1NOT01

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Lys Glu His Pro Gly Gly Asp Ala Pro Leu Ile Asn Leu Ala Gly Gln						
50 55	60					
Asp Val Thr Asp Ala Phe Ile Ala Phe His Pro Gly Thr Ala Trp Lys						
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His Leu Asp Lys Leu Phe Thr Gly Tyr His Leu Lys Asp Tyr Gln Val						
85 90	95					
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Ala Gly Met Phe Glu Lys Lys Gly His Gly Val Ile Tyr Ser Leu Cys						
115 120	125					
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130 135	140					
Gly Ser Phe Trp Ile His Met Leu Ser Gly Ala Ile Leu Gly Leu Ala						
145 150	155	160				
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165 170	175					
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180 185	190					
Cys Ile Thr Gly Ile Ser Ile Ala Trp Trp Lys Trp Thr His Asn Ala						
195 200	205					
His His Ile Ala Cys Asn Ser Leu Asp Tyr Asp Pro Asp Leu Gln His						
210 215	220					
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225 230	235	240				
Val Phe Tyr Gly Arg Gln Leu Thr Phe Asp Pro Leu Ala Arg Phe Phe						
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Val Ser Tyr Gln His Tyr Leu Tyr Pro Ile Met Cys Val Ala Arg						
260 265	270					
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275 280	285					
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290 295	300					
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Cys Ser Ser Trp Met Asp Trp Phe Phe Gly Gly Leu Gln Phe Gln Leu						
370 375	380					

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 <223> 1345640, GenBank

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Met	Glu	Gly	Gly	Ala	Ala	Ala	Ala	Thr	Pro	Thr	Ala	Leu	Pro	Tyr	Tyr
1									10						15
Val	Ala	Phe	Ser	Gln	Leu	Leu	Gly	Leu	Thr	Leu	Val	Ala	Met	Thr	Gly
								20	25						30
Ala	Trp	Leu	Gly	Leu	Tyr	Arg	Gly	Gly	Ile	Ala	Trp	Glu	Ser	Asp	Leu
								35	40						45
Gln	Phe	Asn	Ala	His	Pro	Leu	Cys	Met	Val	Ile	Gly	Leu	Ile	Phe	Leu
								50	55						60
Gln	Gly	Asn	Ala	Leu	Leu	Val	Tyr	Arg	Val	Phe	Arg	Asn	Glu	Ala	Lys
								65	70						80
Arg	Thr	Thr	Lys	Val	Leu	His	Gly	Leu	Leu	His	Ile	Phe	Ala	Leu	Val
								85	90						95
Ile	Ala	Leu	Val	Gly	Leu	Val	Ala	Val	Phe	Asp	Tyr	His	Arg	Lys	Lys
								100	105						110
Gly	Tyr	Ala	Asp	Leu	Tyr	Ser	Leu	His	Ser	Trp	Cys	Gly	Ile	Leu	Val
								115	120						125
Phe	Val	Leu	Tyx	Phe	Val	Gln	Trp	Leu	Val	Gly	Phe	Ser	Phe	Phe	Leu
								130	135						140
Phe	Pro	Gly	Ala	Ser	Phe	Ser	Leu	Arg	Ser	Arg	Tyr	Arg	Pro	Gln	His
								145	150						160
Ile	Phe	Phe	Gly	Ala	Thr	Ile	Phe	Leu	Leu	Pro	Val	Gly	Thr	Ala	Leu
								165	170						175
Leu	Gly	Leu	Lys	Glu	Ala	Leu	Leu	Phe	Asn	Leu	Gly	Gly	Lys	Tyr	Ser
								180	185						190
Ala	Phe	Glu	Pro	Gly	Val	Leu	Ala	Asn	Val	Leu	Gly	Leu	Leu	Leu	
								195	200						205
Ala	Cys	Phe	Gly	Gly	Ala	Val	Leu	Tyr	Ile	Leu	Thr	Arg	Ala	Asp	Trp
								210	215						220
Lys	Arg	Pro	Ser	Gln	Ala	Glu	Glu	Gln	Ala	Leu	Ser	Met	Asp	Phe	Lys
								225	230						240
Thr	Leu	Arg	Gln	Gly	Asp	Ser	Pro	Gly	Ser	Gln					
								245	250						